

Docket No.: PP16502.015

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		<i>Complete if Known</i>			
		Application Number	Unassigned		
		Filing Date	Filed Herewith		
		First Named Inventor	Jia-Hwa Fang et al.		
		Group Art Unit	1615		
		Examiner Name	Unassigned		
Sheet	1	of	4	Attorney Docket Number	PP16502.015

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Class/Subclass		
[Signature]	1	5,538,739	424/501	Bodmer et al.	07-1996
	2	5,643,605	424/489	Cleland et al.	07-1997
	3	US 2002/0009468	424/252.1	Brayden	01-2002
	4	5,783,567	514/44	Hedley et al.	07-21-1998
	5	5,869,103	424/501	Yeh et al.	02-09-1999
	6	5,871,747	424/208.1	Gengoux-Sedlik et al.	02-16-1999
	7	3,523,907	252/316	Vrancken et al.	08-11-1970
	8	5,814,482	435/69.3	Dubensky Jr. et al.	09-29-1998
	9	5,842,723	285/49	Hartling et al.	12-01-1998
	10	5,928,647	424/196.11	Rock	07-27-1999
	11	6,015,686	435/69.1	Dubensky Jr. et al.	01-18-2000
	12	6,086,901	424/283.1	O'Hagan et al.	07-11-2000

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		Office ²	Number	Class/ Subclass			
	1	WO	01/81609 A2	C12N 15 86		01-11-2001	X
	2	WO	94/28879	A61K 9		12-22-1994	X
	3	WO	95/24929	A61K 48		09-21-1995	X
	4	WO	96/20698	A61K 9		07-11-1996	X
	5	WO	97/02810	A61K 9		01-30-1997	X
	6	WO	98/10750	A61K 9		03-19-1998	X
	7	WO	90/14837	A61K 37 10		12-13-1990	X
	8	WO	94/15635	A61K 39 385		07-21-1994	X
	9	WO	97/38087	C12N		10-16-1997	X
	10	WO	98/33487	A61K 9 16		08-06-1998	X
	11	WO	99/18226	C12N 15 86		04-15-1999	X
	12	WO	00/06123	A61K 9 16		02-10-2000	X
Examiner Signature		Blessing Fubara			Date Considered	7-23-04	

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¹ Unique citation designation number. ² Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁵ Applicant is to place a check mark here if English Language Translation is attached.

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	1	Kazzaz, J. et al., "Induction of Cytotoxic T-lymphocyte activity in mice with HIV p24 gag protein adsorbed to the surface of poly(lactide-co-glycolide) microparticles," Proceed. Int'l Symp. Control. Rel. Bioact. Mater., 26 (1999), Controlled Release Society, pp. 104-105.	X
	2	Coombes, A.G.A. et al., "Single Does, Polymeric, Microparticle-Based Vaccines: The Influence of Formulation Conditions On The Magnitude and Duration of the Immune Response To A Protein Antigen," Vaccine, Vol. 14, No. 15, 1996, pp. 1429-1438.	X
	3	Duncan, J.D. et al., "Poly(lactide-co-glycolide) Microencapsulation of Vaccines For Mucosal Immunization," Mucosal Vaccines, 1996, pp. 159-173.	X
	4	Eldridge, J. et al., "New Advances In Vaccine Delivery Systems," Seminars in Hematology, Vol. 30, No. 4, Suppl. 4, Oct. 1993, pp. 16-25.	X
	5	Higgins, D. et al., "MF59 Adjuvant Enhances the Immunogenicity of Influenza Vaccine in Both Young and Old Mice," Vaccine, Vol. 14, No. 6, 1996, pp. 478-484.	X
	6	Men, Y. et al., "Introduction of a Cytotoxic T Lymphocyte Response By Immunization With A Malaria Specific CTL Peptide Entrapped In Biodegradable Polymer Microspheres," Vaccine, Vol. 15, No. 12/13, 1997, pp. 1405-1412.	X
	7	Moore, A. et al., "Immunization With A Soluble Recombinant HIV Protein Entrapped In Biodegradable Microparticles Induces HIV-Specific CD8+ Cytotoxic T Lymphocytes And CD4+ TH1 Cells," Vaccine, Vol. 13, No. 18, 1995, pp. 1741-1995.	X
	8	Nakaoka, R. et al., "Enhanced Antibody Production Through Sustained Antigen Release From Biodegradable Granules," Journal of Controlled Release, Vol. 37 (1995), pp. 215-224.	X
	9	O'Hagan, Derek et al., "Biodegradable Microparticles for Oral Immunization, Vaccine, Vol. 11, 1993, pp. 149-154.	
	10	O'Hagan, Derek et al., "Long-Term Antibody Responses In Mice Following Subcutaneous Immunization With Ovalbumin Entrapped In Biodegradable Microparticles," Vaccine, Vol. 11, 1993, pp. 1965-1969.	
	11	Sah, H. et al., "Continuous Release of Proteins From Biodegradable Microcapsules and In Vivo Evaluation of Their Potential As A Vaccine Adjuvant," Journal of Controlled Release 35 (1995), pp.137-144.	

Examiner Signature	<i>Blessing Fubara</i>	Date Considered	7-23-04
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	12	Vordermeier, H.M. et al., "Synthetic Delivery System For Tuberculosis Vaccines: Immunological Evaluation of the M. Tuberculosis 38 kDa Protein Entrapped In Biodegradable PLG Microparticles," Vaccine, Vol. 13, No. 16, 1995, pp. 1576-1582.	X	
	13	Powell, M. F. et al., "Vaccine Design: The Subunit And Adjuvant Approach," Plenum Press, New York, 1995, p.183.	X	
	14	Eldridge, J. et al., "Biodegradable and Biocompatible Poly(DL-Lactide-Co-Glycolide) Microspheres As An Adjuvant For Staphylococcal Enterotoxin B Toxoid Which Enhances The Level Of Toxin-Neutralizing Antibodies," Infection and Immunity, Vol. 59, No. 9, Sept. 1991, pp. 2978-2986.	X	
	15	Singh, Manmohan et al., "The preparation and characterization of polymeric antigen delivery systems for oral administration," Advanced Drug Delivery Reviews 34 (1998), pp. 285-304.	X	
	16	Denis-Mize, K.S. et al., "Plasmid DNA Adsorbed onto cationic microparticles mediates target gene expression and antigen presentation by dendritic cells," Gene Therapy 2000, pp. 2105-2112.	X	
	17	Kazzaz, J. et al., "Novel anionic microparticles are a potent adjuvant for the induction of cytotoxic T lymphocytes against recombinant p55 from HIV-1," Journal of Controlled Release 67 (2000), pp. 347-356.	X	
	18	Singh, Manmohan et al., "Cationic microparticles: A potent delivery system for DNA vaccines," Proceedings of the National Academy of Science, January 18, 2000, Vol. 97, No. 2, pp. 811-816.	X	
	19	O'Hagan, Derek T., et al., "Long-term antibody responses in mice following subcutaneous immunization with ovalbumin entrapped in biodegradable microparticles," Vaccine, Vol. 11, Issue 9, 1993, pp. 965-969.	X	
	20	Hayley, Jeffery et al., "The preparation and Characterization of Poly(lactide-co-glycolide) Microparticles. II. The Entrapment of a Model Protein Using a (Water-in-Oil)-in-Water Emulsion Solvent Evaporation Technique," Pharmaceutical Research, Vol. 10, No. 3, 1993, pp. 362-368.	X	
	21	Ogawa, Yasuaki et al., "A New Technique To Efficiently Entrap Leuprolide Acetate Into Microcapsules of Polylactic Acid or Copoly (Lactic/Glycolic) Acid," Chem. Pharm. Bull., Vol. 36, 1988, pp. 1095-1103.	X	
	22	Polo, John M. et al., "Stable alphavirus packaging cell lines for Sindbis virus-and Semliki Forest virus-derived vectors," Proceedings of the National Academy of Science, Vol. 96, April 1999, pp. 4598-4603.	X	
	23	Chapman, Barbara S., "effect of intron A from human cytomegalovirus (Towne) immediate-early gene on heterologous expression in mammalian cells," Nucleic Acids Research, Vol. 19, No. 14, pp. 3979-3986.	X	
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